



01-29-01

Attorney Docket No.: 9138-23

PATENT



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

FRANK C. HOPPENSTEADT  
EUGENE M. IZHIKEVICH

Group Art Unit: Unknown

Serial No.: Not yet assigned

Examiner: Unknown

Filed: Herewith

Title: PHASE LOCK LOOPED  
OSCILLATORY NEUROCOMPUTER

Box Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231

**NEW APPLICATION TRANSMITTAL**

Transmitted herewith for filing is the patent application of Inventor(s):

Frank C. Hoppensteadt  
Eugene M. Izhikevich

For:

Phase Lock Looped Oscillatory Neurocomputer

**1. Type of Application**

This new application is for a(n)

- Original (nonprovisional)
- Design
- Plant
- Divisional
- Continuation
- Continuation-in-part (C-I-P)

Title: PHASE LOCK LOOPED OSCILLATORY NEUROCOMPUTER  
Inventor(s): Hoppensteadt; Izhikevich

**2. Benefit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)**

The new application being transmitted claims the benefit of prior U.S. provisional application number 60/178,640. **Enclosed are added pages for new application transmittal where benefit of prior U.S. application(s) claimed.**

**3. Papers Enclosed**

A. Required for filing date under 37 CFR § 1.53(b) (Regular) or 37 CFR § 1.153 (Design) Application

11 Pages of specification

4 Pages of claims

8 Sheets of drawing

formal  
 informal

B. Other Papers Enclosed

2 Pages of declaration and power of attorney

1 Pages of abstract

X Other (Information Disclosure Statement)

**4. Additional papers enclosed**

Information Disclosure Statement (37 CFR 1.98)

**5. Declaration or oath**

Enclosed  
Executed by  
 inventor(s).

**6. Power of Attorney**

Enclosed

Combined with Oath executed by inventors  
 Separate Power of Attorney executed by owner  
 37 CFR § 3.73(b) Declaration

Title: PHASE LOCK LOOPED OSCILLATORY NEUROCOMPUTER  
Inventor(s): Hoppensteadt; Izhikevich

**7. Inventorship Statement**

The inventorship for all the claims in this application are:

The same.  
 Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,  
 is submitted.  
 will be submitted.

**8. Language**

English  
 Non-English

The attached translation includes a statement that the translation is accurate. 37 CFR 1.52(d).

**9. Fee Calculation (37 CFR 1.16)**

A. Regular application

<u>CLAIMS AS FILED</u>					
	Number Filed	Number Extra		Rate	Basic fee 37 CFR 1.16(a) \$710.00
Total Claims (37 CFR 1.16(c))	20 - 20 =	0	x	\$18.00	\$0.00
Independent Claims (37 CFR 1.16(b))	4 - 3 =	0	x	\$80.00	\$80.00
Multiple dependent Claim(s), if any (37 CFR 1.16(d))	0		x	\$270.00	\$0.00
Filing Fee Calculation (\$710.00)					\$790.00

**10. Fee Payment Being Made at this Time**

Not Enclosed  
 No filing fee is to be paid at this time.  
 Enclosed  
 Filing fee

Total fees enclosed \$790.00  
\$0.00

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**11. Method of Payment of Fees**

Check in the amount of \$ \_\_\_\_\_  
 Charge Account No. 07-0135 in the amount of \$790.00

A duplicate of this transmittal is attached.

**12. Authorization to Charge Additional Fees**

The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No. 07-0135

37 CFR 1.16(a), (f) or (g) (filing fees)  
 37 CFR 1.16(b), (c) or (d) (presentation of extra claims)  
 37 CFR 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)  
 37 CFR 1.17(a)(1)-(5) (extension fees pursuant to 1.136(a))  
 37 CFR 1.17 (application processing fees)  
 37 CFR 1.18 (issue fee at or before mailing of Notice of Allowance pursuant to 37 CFR 1.311(b))

**13. Instructions as to Overpayment**

Credit Account No. 07-0135  
 Refund

**Incorporation by Reference of Added Pages**

Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed  
Number of pages added \_\_\_\_\_ 2

Plus Added Pages Deleting Name(s) of Inventor(s) Named in Prior Application(s) Who is/are No Longer Inventor(s) of the Subject Matter Claimed in this Application  
Number of pages added \_\_\_\_\_

Plus "Assignment Cover Letter Accompanying New Application"  
Number of pages added \_\_\_\_\_

Title: PHASE LOCK LOOPED OSCILLATORY NEUROCOMPUTER  
Inventor(s): Hoppensteadt; Izhikevich

Respectfully submitted,

**GALLAGHER & KENNEDY, P.A.**

Dated: 1/26/01

By: 

Thomas D. MacBlain, Reg. No. 24,583  
2575 East Camelback Road  
Phoenix, Arizona 85016-9225  
Telephone: (602) 530-8000  
Facsimile: (602) 530-8500

**CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. 1.10.**

I hereby certify that this document (and any as referred to as being attached or enclosed) is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" service, mailing label No. E1709979487 US on 1-26-01 and addressed to Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Bertha Woodward  
Cindy Guerrero, Legal Secretary  
Bertha Woodward

**ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE  
BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED**

**14. Relate Back**

[X] Amend the specification by inserting, before the first line, the following sentence:

A. 35 U.S.C. 119(e)  
[X] "This application claims the benefit of U.S. Provisional Application No. 60/178,654 filed January 28, 2000."

B. 35 U.S.C. 120, 121 and 365(c)  
[ ] "This application is a  
[ ] continuation  
[ ] continuation-in-part  
[ ] divisional  
of copending application(s)  
[ ] application number \_\_\_\_/\_\_\_\_, \_\_\_\_ filed on \_\_\_\_\_"  
[ ] International Application \_\_\_\_\_ filed on \_\_\_\_\_  
and which designated the U.S."  
[ ] "The non-provisional application designated above, namely,  
application \_\_\_\_/\_\_\_\_, \_\_\_\_ filed \_\_\_\_\_ claims the benefit  
of U.S. Provisional Application No(s).:  
[ ] Where more than one reference is made above, please combine all  
references into one sentence.

**15. Further Inventorship Statement Where Benefit of Prior Application(s) Claimed**

A. [X] This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor(s) in this application are  
[X] the same.  
[ ] less than those named in the prior application. It is requested that the following inventor(s) identified for the prior application be deleted:

B. [ ] This application discloses and claims additional disclosure by amendment and a new declaration or oath is being filed. With respect to the prior application, the inventor(s) in this application are  
[ ] the same.  
[ ] the following additional inventor(s) has (have) been added:

C. [X] The inventorship for all the claims in this application are  
[X] the same.  
[ ] not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made  
[ ] is submitted.  
[ ] will be submitted.

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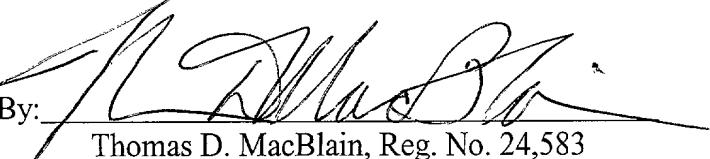
**16. Request to Not Publish Subject Patent Application**

Applicants hereby certify that the invention disclosed in the application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of application 18 months after filing. Accordingly, applicants respectfully request the subject patent application not be published as provided in section (b), paragraph (1) of 35 U.S.C. 122.

Respectfully submitted,

GALLAGHER & KENNEDY, P.A.

Dated: 1/26/01

By: 

Thomas D. MacBlain, Reg. No. 24,583  
2575 East Camelback Road  
Phoenix, Arizona 85016-9225  
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